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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,144	01/17/2002	Khosro Shamsaifar	PARA 49784	1066
75	90 05/02/2006		EXAM	INER
William J. Tucker			GLENN, KIMBERLY E	
14431 Goliad Dr. Box # 8			ART UNIT	PAPER NUMBER
Malakoff, TX 75148			2817	

DATE MAILED: 05/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/051,144	SHAMSAIFAR ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kimberly E. Glenn	2817			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONET	ely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on 15 Fe 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-4,6,7,12,14,17 and 18 is/are pendin 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,6,7,12,14,17 and 18 is/are rejecte 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 1/17/02 is/are: a) accompany and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction in the correction of the correction	wn from consideration. d. r election requirement. r. cepted or b) objected to by the drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With regards to claim 1, applicant discloses a microstrip line in line 13. Is applicant referring to the additional microstrip line or the resonators composed of microstrip line?

In line 13, applicant states each capacitively coupled to one of the resonator microstrip lines. With regards to the limitation "each capacitively coupled", is applicant referring to the first and second end?

With regards to claim 2, applicant disclose in claim 1 that the plurality of resonators comprises a microstrip line. Accordingly, this limitation has been incorporated by reference through out the claims dependent from claim 1. Therefore, the resonators of claim 2 cannot be constructed using the alternatives a stripline, coaxial line dielectric resonator or waveguide configurations in view of the microstrip lines resonators incorporated by reference into clam 2.

Claim 3 recites the limitation "the means for coupling non adjacent one of the resonator" in line. There is insufficient antecedent basis for this limitation in the claim.

Also with regards to claim 3, applicant discloses "an additional tunable capacitor and conductor". Are these the same as "the additional microstrip line and additional tunable capacitor" recited in claim 1?

Claim 6 recites the limitation "the tunable dielectric film" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Affidavit

The affidavit under 37 CFR 1.132 filed July 19, 2005 is not persuasive. The statement is merely an unsupported assertion. The arguments regarding the asymmetric response are not commensurate with what is claimed. The sworn statement is drawn to three patents (US Patent No. 6,686,817, US Patent 6597,265 and US Patent No. 5,543,764). Claims 1-4, 12 and 14 are now rejected under 35 USC 102(b) rejection based on reference Giraudeau et al. With regards to claims 6, 7, 17 and 18, the claims are rejected under 35 USC 103 rejection based on Giraudeau et al in view of Zhu et al. Giraudeau et al disclose a filter comprising a plurality of resonators each connected variable capacitor. Zhu et al disclose a tunable filter using a dielectric varactor. One of ordinary skill in the art would have found it obvious to replace the general variable capacitors of Giraudeau et al with the dielectric varactors as taught by Zhu et al. The dielectric varactor provide a lower loss, higher power handling and faster tuning speeds.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly E. Glenn whose telephone number is (571)-272-1761. The examiner can normally be reached on Monday-Friday 7:30 to 4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571)-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimberly E Glenn

Examiner

Art Unit 2817

42706 keg

/Robert Pascal

Supervisory Patent Examiner
Technology Center 2800